PIKES PEAK RADIO AMATEUR ASSOC

Ø BEAT

COLO. SPRINGS, COLORADO

DECEMBER 1979

The Editor Says:

The publishing of the Ø BEAT has been dumped on one or two individuals for too long. We are now "dumping" it on several, and an attempt to have it in your hot little hands by Board Meeting time. Your Board needs input to keep this Club the kind of Club you wish.

Among other things we would really enjoy is a "Letters to the Editor" Column. Ask your questions, chew us out, make your suggestions or what have you by the 20th of any month and we will very likely have your response in that months' Ø BEAT.

We do need your serious thoughts on filling one appointment and that is an Emergency Coordinator for Servcom. This is a very responsible position and great care should be exercised in our selection. We do need help. Also, it is my understanding that an opening for Section Communications Manager for the Rocky Mountain Division is to be available after January 1. Anyone interested????

We have two healthy, live ones for the upcoming Swap Fest; Dave Acree WØMBZ and Ken Holloway KAØDST. Now they need help. They have a job that is very special, and it needs filling:

QUALIFICATIONS:

Ravishing beauty, 5'7" -- 120 lbs -- 34 - 22 - 34.

RESPONSIBILITIES:

Round up Food Committee and ramrod the food sales at the Swap Fest. -- Fringe Benefits.

Next is a most fun nite --- Home Brew Nite. See what your buddy made that you didn't. Show him what you made that he didn't. Its a great Show-&-Tell. Well, show anyway.

P.P.R.A.A. DIRECTORS

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(* Two-year board terms began November 1979)

ZERO BEAT is published monthly in the interest of the members of the Pikes Peak Radio Amateur Association, Inc., Colorado Springs, CO. Permission is given to reprint articles or excerpts provided credit is given. Deadline for submission of articles to be published is the third week of the month. Classifieds accepted anytime.

The Pikes Peak Radio Amateur Association meets on the second Wednesday of every month at Sabin Jr. High School, 3605 N. Carefree Circle at 7:30 p.m. and all amateurs and interested persons are cordially invited. The Association also conducts an informal net on all Wednesday evenings, except meeting night, on 146.52 MHz FM at 7:00 p.m.

Editor: Jim Colvin NØAVY, 4610 Topaz, Colorado Springs, CO 80918 598-7704

November Minutes: The November meeting of the Pikes Peak Radio Amateur Association was called to order at 7:31 P.M. Wednesday November 14, 1979 by Don Lohse, KAØCHA, president.

Hams are needed to play in the wheelchair basketball game on December 5 at 8 P.M. at North Junior High. Volunteers were Charleen WBØYOB, Susie WDØFXR, and Kim WBØHUW, already on the team were Ray AAØL, Doug WBØMHP, Don KAØCHA, and Dave WBØSDW.

The program was Phased Arrays, Part II given by Al Bailey ADØZ. It was an excellent program.

Bud WBØTIB announced that he will be resigning from the job of Emergency Coordinator effective January 1, 1980.

Dave Acree WØMBZ the Swap Fest chairman needs assistance. Please contact Dave if you want to help.

Chuck WØRNT reported on the CCARC meeting that was held in Ft. Collins on October 27, 1979. Some of the topics that were discussed were the PPFMA repeater and some of the new repeaters i.e. 10 - 70 in Dillon and 89 - 49 in Conifer.

A reminder of the Christmas Party was given by Chuck WØRNT. It is Friday, December 14, at the Grain and Grape Restaurant Highway 24 and Murray Blvd. The cost is $7.00 per person and you must make reservations. There will be entertainment followed by roast turkey and roast beef dinner.

Don KAØCHA on Ø Beat. Ø Beat will be a new group effort with help for Dave WBØTAQ from Art WAØAEH, Ray AAØL, Jim NØAVY, Charleen WBØYOB, and Don KAØCHA. PLEASE CONTRIBUTE ARTICLES, PUZZLES, ADS, Etc.

The December program will be on home brew. All members are urged to bring their home brew equipment for display.

Warren Reuben WBØSJR read a letter from FCC regarding CW requirements for amateur licenses.

Meeting Minutes Cont. . . . . .

Tom Tobiassen NØBZ chairman of PPFMA (Pikes Peak FM Association) explained the newly reorganized repeater association, equipment, useage, and goals.

The minutes of the October meeting were approved as printed in Ø Beat.

Treasurer's report by Dave WBØSDW reported $327.18 plus $77.55 in SERVCOM.

Net control operators for the 52 Net for the coming month were picked. The Net meets at 7 P.M. on 52 every Wednesday except club meeting nights.

Door prizes were drawn for by Dave NØDV.

The meeting adjorned at 10:00 P.M. by Don KAØCHA.

Respectfully submitted,
Lorna WDØBTF

TECH TALK . . .

What is a Grid-dip meter and when do you use one?

A grid-dip meter in it's simplest form is just a tuneable oscillator with a meter monitoring the grid voltage. The coil you are always changing from band-to-band is the inductive component of an LC resonant circuit.

In operation, when you find the resonant frequency of an antenna, the coil is coupling some of the oscillator energy into the antenna. When this happens, the voltage, as indicated by the meter, will drop.

With the modern-day dip-meters using solid-state devices, 'grid-dip' no longer applies, however, they sometimes retain the name. Best yet, they operate much the same way as far as the use of them is concerned.

Some of the basic uses of a grid-dip meter are looking for the resonant frequency of an antenna, a tank circuit or a tuned stub. They can also be used as a signal generator to check for operable receivers. I must say, don't try to align a sophisticated receiver with one, but it works well to see if it is alive or dead.

A grid-dip meter is a better way of finding the resonance of an antenna than an SWR meter. Is this statement true? I want to whet your appetite for next month's article about the use of Grid-dip meters. 73 'til next month.

Doug Moloney

WBØMHP

What did Santa Claus do on Christmas Eve? . . . . . .WAC, WAS, Worked all Counties.

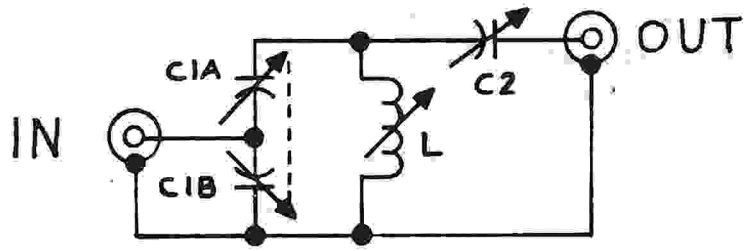
TECH TALK . . .

THE ULTIMATE TRANSMATCH

What will it do?

What will I do? What will I do? Several of our club members have recently muttered these famous words while trying to get their transmatches to work. Their experiences might be a help to others building this versatile and highly worthwhile matching device.

1. The circuit must be hooked up this way



2. C1 is a DIFFERENTIAL capacitor ie. one part increases capacitance while the other decreases.

3. When tuning, initially set C2 closed if the load is a high impedance. Set C2 to nearly open if the load is a low impedance. Set C2 in the middle if you're like me and can't decide what the load is. Set C1 to mid range and L near minimum. Start tuning by increasing L until a dip in SWR is detected.

4. When tuning C1, C2 and L for minimum reflected power try tuning the on one side or the other of minimum reflected power and then redip with the caps. You'll soon discover the proper side of the dip to tune L when going for a 1:1 VSWR.

5. Remember the SWR bridge goes between the transmitter and the transmatch.

Best 73 Ray AAØL

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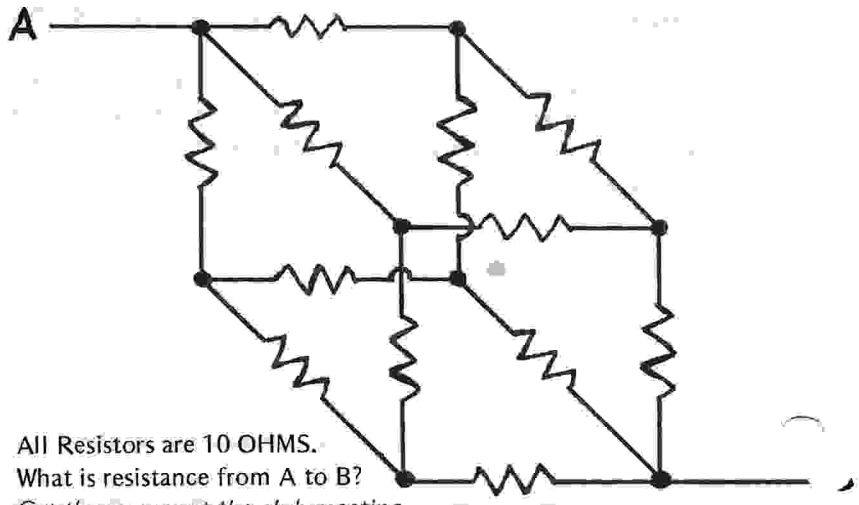
PUZZLE OF THE MONTH



All Resistors are 10 OHMS.
What is resistance from A to B?
Get the answer at the club meeting.

Board Minutes:

The Colorado Motorcycle Trail Riders Assoc. have again offered to provide the PPPAA with funds with which to purchase equipment or do with whatever it wishes. The board discussed the possibilities of a portable repeater (built as a club project), needed equipment, and bringing it to the membership for suggestions.

The Ø Beat will be published by a committee to help Dave Allen WBØTAO since he has been swamped with other obligations.

Bud WBØTIB reminded the board that the 52 Net was supposed to be an informal club net for club business not for passing traffic.

It was decided that the December program would be ''Home Brew Night''. Members are to bring gear that they have made themselves. Some suggestions were made for future programs such as field trips, microwaves, narrow band FM, Bob Shriner from Circuit Board Specialists, and possibly a repeat of the safety program from Public Utilities.

Insurance and bonding for board members was discussed briefly.

There is a need for storage of club equipment presently stored by Mike KØTER. An announcement will be placed in Ø Beat asking members that have club equipment or know of its whereabouts to notify Don KAØCHA or Art WAØAEH.

Bud WBØTIB announced that effective January 1 he will be resigning the position of Emergency Coordinator for SERVCOM.

There being no further business the meeting was adjourned. The next meeting will be at Dave Vierling's NØDV 2511 N. Tejon at 7:30 P.M. on December 3. This is an open meeting and members are invited to attend.

Respectfully submitted,
Charleen WBØYOB

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